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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/023,344	12/17/2001	Hirokazu Miwa	0941.66061	7994
Patrick G. Burn	7590 02/21/2007	•	EXAM	INÉR
GREER, BURN	NS & CRAIN, LTD.		LAO, L	UN YI
Suite 2500 300 South Wac	ker Dr		ART UNIT	PAPER NUMBER
Chicago, IL 600			2629	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/023,344	MIWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	LUN-YI LAO	2629	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MOI e, cause the application to become A	CATION. reply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
 1) ⊠ Responsive to communication(s) filed on 11/2 2a) ⊠ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under the condition of the condi	s action is non-final. ince except for formal mat	• •	i
Disposition of Claims			
4) ☐ Claim(s) 1 and 4 is/are pending in the application 4a) Of the above claim(s) is/are withdration 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	·	
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on 17 December 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	are: a)⊠ accepted or b)□ drawing(s) be held in abeya stion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d	i).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in A prity documents have been u (PCT Rule 17.2(a)).	opplication No received in this National Stage	
Attachment(s) 1) D Notice of References Cited (PTO-892)		Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/17/2001. 		s)/Mail Date nformal Patent Application 	

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Matsueda et al(20020003521).

Matsueda et al teach a liquid crystal display comprising: a display part displaying an image in accordance with image display data(DA) supplied through data signal lines(902)(see figures 1, 6, 8, 10); and a driving part driving each data signal line(902) of the data signal lines(902) by using a plurality of driving devices(211-216, 271-276, 321-325, 341-345) together simultaneously so as to increase the driving capability, wherein the plurality of driving devices (211-216, 271-276, 321-325, 341-345) are disposed on the same side of the data signal lines(902); wherein the number of the driving devices(211-216, 271-276, 321-325, 341-345) used for driving each data signal line(902) is controlled in accordance with a particular type of the display part (different gray scale levels; e.g. 6 bits or 8 bits or N bits)(see figures 1, 6, 8, 10, 21 and

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paragraphs 12-14 and 155), and wherein control of the number of driving devices is made with the use of a switch signal (see figures 1, 6, 8, 10 and paragraphs 92-93, 132-133 and 163).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsueda et al in view of Ichikawa et al(5,028,916).

Matsueda et al fail to disclose a wiring part provided on a substrate on which the display part is formed.

As to claim 4, Ichikawa et al teach an LCD display comprising a wiring part integrated with a display part on a substrate(14)(see figures 1, 7-11; column 7, lines 39-68 and column 8, lines 1-33). It would have been obvious to have modified Matsueda et al with the teaching of Ichikawa et al, so as to eliminate cumbersome interconnection between the display panel and the drive circuit section, and improve operation reliability, as well as a low assembly cost(see column 8, lines 18-33).

Response to Arguments

5. Applicant's arguments filed on 11/24/2006 have been fully considered but they are not persuasive.

Applicants argues that Matsueda et al do not teach a plurality drivers working simultaneously on pages 2-4 since the elements(211-216, 271-276, 321-325, 341-345) could not considered as a driving devices. However, since applicants' BF(buffers BF) can considered as a plurality of drivers, so does Matsueda's elements(211-216, 271-276, 321-325, 341-345)(see page 3 of applicants' argument filed on June 13, 2003, figures 8-9C and paragraph 95).

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lun-yi Lao whose telephone number is 571-272-7671. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 19, 2007

Lun-yi Lao

Primary Examiner